

COLOR (Spectrophotometric) SM 20 th ED 2120 C					
Facility Name: _____ VELAP ID _____					
Assessor Name: _____ Analyst Name: _____ Inspection Date _____					
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst: _____					
Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____					
Does the spectrophotometer have a 10 mm cell, a 10 um or less spectral band, and a range of 400-700 nm?	2.a.				
Is one room temperature aliquot at original pH and one adjusted to 7.6 pH?	3.a.				
Are both samples centrifuged?	3.a.				
Is apparatus assembled with 3-way valve to a clean and a waste flask?	Fig. 2120:1				
Is 0.1 g of filter aid in 10 mL of centrifuged sample filtered thru apparatus to waste container?	3.a.				
Is 40 mg filter aid in 35 mL of centrifuged sample filtered thru apparatus to waste container until clear and then to clean container to collect 25 mL?	3.a.				
Is cell thoroughly cleaned with detergent, water, and double rinsed with sample and outside wiped after filling?	3.b.				
Is instrument set to read 100% with distilled water?	3.b.				
Is transmittance values determined for the 10 asterisk ordinances (Table 2120:I) for semi-accurate work and all 30 for increased accuracy?	3.b.				
Are transmittance values for X,Y and Z tabulated and each column summed and multiplied by the appropriate multiplier?	4.a.				
Notes/ Comments:					

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Is the Y reported as the tristimulus value (luminance)?	4.a.				
Are the X,Y calculated as $X \text{ or } Y = \frac{X \text{ or } Y}{X + Y + Z}$	4.b.				
Is dominant wavelength in nm and purity in % determined from point x,y from Figure 2120:2	4.b.				
Is dominant hue determined from using wavelength from Table 2120 II?	4.b.				
Is color characteristics reported for original and pH 7.6 samples?					
Is dominant wavelength (to nearest nm), hue (color), luminance (to tenth of %), and purity (to whole percent) reported?					
Is type of instrument (spectrophotometer), number of ordinates (10 or 30), and spectral band width (nm) used also reported?					
Notes/ Comments:					